

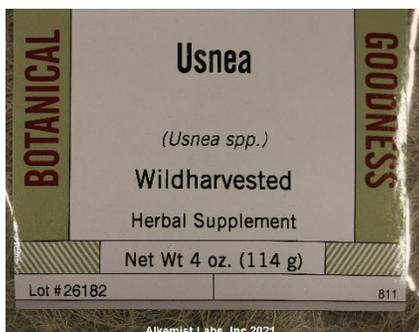
Certificate Issued To:  
**Mountain Rose Herbs**  
12661 Hoover St  
Garden Grove, CA 92841  
USA



Work performed at:  
**Alkemist Labs**  
12661 Hoover Street  
Garden Grove, CA 92841  
714-754-HERB (4372)  
sales@alkemist.com

**Certificate of Analysis: Usnea (26182-T)**  
Microscopy with Digital Photo-Documentation

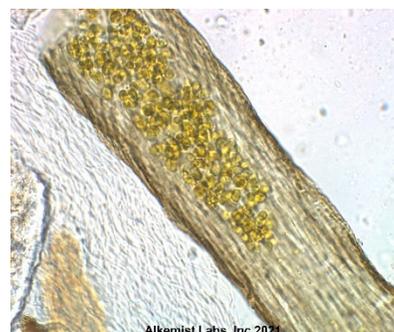
1



2



3



Company Name: Mountain Rose Herbs  
Title: Usnea  
Plant Part: Whole Lichen  
Sample Received: 4/28/2021  
Sample Description: Clear Reclosable Plastic Bag  
Form of Botanical: whole/dry  
Appearance: (1) Green/tan stringy lichen  
Lot : 26182-T  
Sample : 21118KSG\_1  
Latin Name: Usnea sp.  
Reference Sample : JE18007BSI2 Usnea sp. authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below; held at Alkemist Labs, Garden Grove, CA.  
  
Analyst: E. Sudberg & I. Solorzano  
Magnification: (2) 400X  
Chemical Reagents: (2) acidified chloral hydrate glycerol solution  
Sample Findings: (2) medullary layer, composed of tightly woven hyphae  
Magnification: (3) 400X  
Chemical Reagents: (3) acidified chloral hydrate glycerol solution  
Sample Findings: (3) algal layer showing green pigmented cells  
Reference Source: Internal Reference Sample  
MIC-SOP-54-04, MIC-SOP-54-05, MIC-SOP-54-06, MIC-SOP-510-07

**Comments & Conclusions:** This sample has characteristics of Usnea sp. [Usneaceae] lichen based on comparison with an authenticated reference samples and the characteristics described in the references cited above. The characteristic cellular structures identified in this sample are the medullary layer, composed of tightly woven hyphae seen in micrograph (2) above. In micrograph (3) we see the algal layer showing green pigmented cells. **This test sample, Usnea (26182-T), has characteristics of Usnea sp. [Usneaceae] lichen.**

**NOTE:** The presence of soluble excipients was not detected in this test sample.

Analyzed by: Iris Solorzano  
Examined, Reviewed & Authorized by: Élan M Sudberg, CEO

Report Date: 5/3/2021



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